# Special Issue

## Magnetic Nanoparticles: State of the Art and Future Perspectives

### Message from the Guest Editor

Nanotechnology has grown rapidly over the past twenty years, and nanoparticles generally form the basis of this new technology and find multiple applications in several fields, such as health, electronics, environment, transport, consumer products, and care. Magnetic nanoparticles, in particular, are increasingly used to improve therapeutic protocols or diagnostic methods, but also for several other applications, such as catalysis, data storage, and energy. The multiple applications of magnetic nanoparticles depend on their magnetic behavior (soft, semi-hard, or hard). For example, magnetically hard materials can be used as permanent magnets, semi-hard materials can be used for magnetic recording, and soft materials can be used for electronic components (inductors or transformers). Furthermore, they can be used as a contrast agent, as a tracer, as an agent for the treatment of cancer by magnetic hyperthermia, or as an antibacterial agent. There are a multitude of magnetic nanoparticle synthesis methods that can produce nanoparticles with a given magnetic behavior.

### Guest Editor


Dr. Karim Zehani

Institute of Chemistry and Materials, Université Paris-Est Créteil, 94320 Thiais, France


### Deadline for manuscript submissions

closed (15 July 2023)


**Magnetochemistry**

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/114040

*Magnetochemistry*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
magnetochemistry@mdpi.com

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Impact Factor 2.5
CiteScore 4.6

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## Message from the Editor-in-Chief

## Editor-in-Chief

Prof. Dr. Carlos J. Gómez García
Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjasot, Spain

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